



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : C-40-LED35-HO-D9.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002  
 [TEST] C-40-LED35-HO-D9  
 [TESTLAB] Intertek  
 [ISSUE DATE] March 6, 2017  
 [MANUFAC] Prudential Lighting

### CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	8056
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	68
Total Luminaire Watts	118
Ballast Factor	1.00
CIE Type	Semi-Direct
Spacing Criterion (0-180)	1.26
Spacing Criterion (90-270)	1.26
Spacing Criterion (Diagonal)	1.38
Basic Luminous Shape	Unknown
Luminous Length (0-180)	3.88 ft (Diameter)
Luminous Width (90-270)	3.33 ft (Diameter)
Luminous Height	0.00 ft

### LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	0	0	0
55	0	0	0
65	0	0	0
75	0	0	0
85	0	0	0

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**CANDELA TABULATION**

	<b>0.0</b>	<b>22.5</b>	<b>45.0</b>	<b>67.5</b>	<b>90.0</b>	<b>112.5</b>	<b>135.0</b>	<b>157.5</b>	<b>180.0</b>	<b>202.5</b>
<b>0.0</b>	1875.328	1875.328	1875.328	1875.328	1875.328	1875.328	1875.328	1875.328	1875.328	1875.328
<b>2.5</b>	1881.932	1885.208	1872.260	1862.484	1866.124	1862.484	1872.260	1885.208	1881.932	1885.208
<b>5.0</b>	1876.186	1878.942	1865.812	1856.894	1860.248	1856.894	1865.812	1878.942	1876.186	1878.942
<b>7.5</b>	1863.602	1867.502	1855.646	1846.962	1851.070	1846.962	1855.646	1867.502	1863.602	1867.502
<b>10.0</b>	1846.598	1851.278	1839.812	1830.868	1833.260	1830.868	1839.812	1851.278	1846.598	1851.278
<b>12.5</b>	1829.152	1830.556	1819.168	1808.612	1812.616	1808.612	1819.168	1830.556	1829.152	1830.556
<b>15.0</b>	1802.502	1805.050	1795.144	1788.072	1787.968	1788.072	1795.144	1805.050	1802.502	1805.050
<b>17.5</b>	1773.642	1776.814	1768.858	1759.108	1761.656	1759.108	1768.858	1776.814	1773.642	1776.814
<b>20.0</b>	1740.336	1746.342	1734.356	1729.624	1729.936	1729.624	1734.356	1746.342	1740.336	1746.342
<b>22.5</b>	1707.472	1708.954	1702.116	1691.586	1695.798	1691.586	1702.116	1708.954	1707.472	1708.954
<b>25.0</b>	1668.394	1674.322	1662.804	1659.190	1655.368	1659.190	1662.804	1674.322	1668.394	1674.322
<b>27.5</b>	1628.094	1628.406	1620.866	1614.054	1613.872	1614.054	1620.866	1628.406	1628.094	1628.406
<b>30.0</b>	1583.036	1584.128	1574.742	1571.180	1568.892	1571.180	1574.742	1584.128	1583.036	1584.128
<b>32.5</b>	1532.362	1536.548	1527.812	1522.560	1517.152	1522.560	1527.812	1536.548	1532.362	1536.548
<b>35.0</b>	1481.298	1483.092	1475.396	1473.030	1468.714	1473.030	1475.396	1483.092	1481.298	1483.092
<b>37.5</b>	1426.594	1427.348	1421.134	1416.714	1416.974	1416.714	1421.134	1427.348	1426.594	1427.348
<b>40.0</b>	1368.146	1369.914	1361.906	1361.958	1360.606	1361.958	1361.906	1369.914	1368.146	1369.914
<b>42.5</b>	1305.876	1305.096	1302.574	1298.622	1298.544	1298.622	1302.574	1305.096	1305.876	1305.096
<b>45.0</b>	1243.528	1242.904	1238.588	1239.914	1235.598	1239.914	1238.588	1242.904	1243.528	1242.904
<b>47.5</b>	1175.902	1175.278	1174.108	1173.536	1175.928	1173.536	1174.108	1175.278	1175.902	1175.278
<b>50.0</b>	1108.458	1109.342	1106.352	1107.080	1106.820	1107.080	1106.352	1109.342	1108.458	1109.342
<b>52.5</b>	1040.312	1039.090	1036.022	1037.504	1036.854	1037.504	1036.022	1039.090	1040.312	1039.090
<b>55.0</b>	969.436	968.786	963.898	965.432	965.250	965.432	963.898	968.786	969.436	968.786
<b>57.5</b>	897.312	896.896	896.402	894.608	895.674	894.608	896.402	896.896	897.312	896.896
<b>60.0</b>	825.890	823.966	821.392	822.692	823.706	822.692	821.392	823.966	825.890	823.966
<b>62.5</b>	752.570	750.984	752.102	747.526	747.578	747.526	752.102	750.984	752.570	750.984
<b>65.0</b>	682.240	674.076	677.482	671.294	674.362	671.294	677.482	674.076	682.240	674.076
<b>67.5</b>	605.072	599.976	600.912	597.792	600.912	597.792	600.912	599.976	605.072	599.976
<b>70.0</b>	531.284	525.850	527.046	525.590	526.838	525.590	527.046	525.850	531.284	525.850
<b>72.5</b>	458.068	454.844	452.452	451.282	456.196	451.282	452.452	454.844	458.068	454.844
<b>75.0</b>	388.154	382.772	382.174	380.406	384.670	380.406	382.174	382.772	388.154	382.772
<b>77.5</b>	315.094	310.934	310.310	312.598	312.494	312.598	310.310	310.934	315.094	310.934
<b>80.0</b>	243.438	242.788	241.098	241.176	243.672	241.176	241.098	242.788	243.438	242.788
<b>82.5</b>	177.450	173.810	175.214	172.328	173.992	172.328	175.214	173.810	177.450	173.810
<b>85.0</b>	112.294	112.580	111.462	111.046	109.330	111.046	111.462	112.580	112.294	112.580
<b>87.5</b>	49.894	50.830	51.298	47.242	46.306	47.242	51.298	50.830	49.894	50.830
<b>90.0</b>	7.826	8.268	9.594	11.960	13.884	11.960	9.594	8.268	7.826	8.268
<b>92.5</b>	12.714	14.118	13.806	14.118	13.806	14.118	13.806	14.118	12.714	14.118
<b>95.0</b>	28.652	30.264	29.510	30.290	29.016	30.290	29.510	30.264	28.652	30.264
<b>97.5</b>	52.026	50.934	50.908	51.142	50.440	51.142	50.908	50.934	52.026	50.934
<b>100.0</b>	83.928	78.000	77.506	77.844	74.672	77.844	77.506	78.000	83.928	78.000
<b>102.5</b>	116.766	108.212	106.418	106.002	104.052	106.002	106.418	108.212	116.766	108.212
<b>105.0</b>	150.176	142.168	137.722	136.786	137.098	136.786	137.722	142.168	150.176	142.168
<b>107.5</b>	183.664	179.738	171.704	170.612	173.342	170.612	171.704	179.738	183.664	179.738
<b>110.0</b>	219.570	218.192	209.716	207.272	212.056	207.272	209.716	218.192	219.570	218.192
<b>112.5</b>	257.036	257.062	249.574	246.558	251.966	246.558	249.574	257.062	257.036	257.062
<b>115.0</b>	295.282	295.906	289.900	286.650	292.344	286.650	289.900	295.906	295.282	295.906
<b>117.5</b>	334.516	335.764	329.810	327.470	332.826	327.470	329.810	335.764	334.516	335.764
<b>120.0</b>	374.244	376.038	370.344	368.082	373.620	368.082	370.344	376.038	374.244	376.038
<b>122.5</b>	415.194	416.754	411.112	409.214	414.544	409.214	411.112	416.754	415.194	416.754
<b>125.0</b>	456.222	457.860	451.932	451.490	455.182	451.490	451.932	457.860	456.222	457.860
<b>127.5</b>	497.328	498.940	492.544	493.714	496.730	493.714	492.544	498.940	497.328	498.940
<b>130.0</b>	538.512	540.306	533.858	535.340	539.500	535.340	533.858	540.306	538.512	540.306
<b>132.5</b>	579.982	581.646	575.796	577.434	581.750	577.434	575.796	581.646	579.982	581.646

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**CANDELA TABULATION - (Cont.)**

135.0	621.478	623.298	617.552	619.918	623.480	619.918	617.552	623.298	621.478	623.298
137.5	662.740	664.742	659.048	662.090	664.950	662.090	659.048	664.742	662.740	664.742
140.0	703.846	705.744	699.842	703.352	706.706	703.352	699.842	705.744	703.846	705.744
142.5	744.198	745.992	740.038	743.626	747.006	743.626	740.038	745.992	744.198	745.992
145.0	783.042	784.992	779.012	782.704	785.746	782.704	779.012	784.992	783.042	784.992
147.5	819.910	822.588	816.322	819.806	822.562	819.806	816.322	822.588	819.910	822.588
150.0	855.556	858.416	851.474	855.036	857.558	855.036	851.474	858.416	855.556	858.416
152.5	889.278	891.800	885.144	888.706	890.838	888.706	885.144	891.800	889.278	891.800
155.0	920.946	923.130	916.942	919.724	921.544	919.724	916.942	923.130	920.946	923.130
157.5	949.754	951.704	946.530	948.350	949.962	948.350	946.530	951.704	949.754	951.704
160.0	976.170	978.510	972.972	974.194	975.754	974.194	972.972	978.510	976.170	978.510
162.5	999.674	1002.742	995.826	997.334	999.206	997.334	995.826	1002.742	999.674	1002.742
165.0	1020.708	1023.464	1016.522	1017.874	1019.486	1017.874	1016.522	1023.464	1020.708	1023.464
167.5	1038.414	1041.066	1034.384	1035.164	1037.192	1035.164	1034.384	1041.066	1038.414	1041.066
170.0	1053.208	1055.600	1049.126	1049.958	1051.908	1049.958	1049.126	1055.600	1053.208	1055.600
172.5	1064.778	1067.092	1060.566	1061.294	1063.270	1061.294	1060.566	1067.092	1064.778	1067.092
175.0	1073.046	1074.866	1068.548	1069.484	1071.408	1069.484	1068.548	1074.866	1073.046	1074.866
177.5	1078.194	1079.806	1073.462	1074.346	1076.270	1074.346	1073.462	1079.806	1078.194	1079.806
180.0	1077.908	1077.908	1077.908	1077.908	1077.908	1077.908	1077.908	1077.908	1077.908	1077.908

**Vert. Angles**      **Horizontal Angles**

	<b>225.0</b>	<b>247.5</b>	<b>270.0</b>	<b>292.5</b>	<b>315.0</b>	<b>337.5</b>	<b>360.0</b>
0.0	1875.328	1875.328	1875.328	1875.328	1875.328	1875.328	1875.328
2.5	1872.260	1862.484	1866.124	1862.484	1872.260	1885.208	1881.932
5.0	1865.812	1856.894	1860.248	1856.894	1865.812	1878.942	1876.186
7.5	1855.646	1846.962	1851.070	1846.962	1855.646	1867.502	1863.602
10.0	1839.812	1830.868	1833.260	1830.868	1839.812	1851.278	1846.598
12.5	1819.168	1808.612	1812.616	1808.612	1819.168	1830.556	1829.152
15.0	1795.144	1788.072	1787.968	1788.072	1795.144	1805.050	1802.502
17.5	1768.858	1759.108	1761.656	1759.108	1768.858	1776.814	1773.642
20.0	1734.356	1729.624	1729.936	1729.624	1734.356	1746.342	1740.336
22.5	1702.116	1691.586	1695.798	1691.586	1702.116	1708.954	1707.472
25.0	1662.804	1659.190	1655.368	1659.190	1662.804	1674.322	1668.394
27.5	1620.866	1614.054	1613.872	1614.054	1620.866	1628.406	1628.094
30.0	1574.742	1571.180	1568.892	1571.180	1574.742	1584.128	1583.036
32.5	1527.812	1522.560	1517.152	1522.560	1527.812	1536.548	1532.362
35.0	1475.396	1473.030	1468.714	1473.030	1475.396	1483.092	1481.298
37.5	1421.134	1416.714	1416.974	1416.714	1421.134	1427.348	1426.594
40.0	1361.906	1361.958	1360.606	1361.958	1361.906	1369.914	1368.146
42.5	1302.574	1298.622	1298.544	1298.622	1302.574	1305.096	1305.876
45.0	1238.588	1239.914	1235.598	1239.914	1238.588	1242.904	1243.528
47.5	1174.108	1173.536	1175.928	1173.536	1174.108	1175.278	1175.902
50.0	1106.352	1107.080	1106.820	1107.080	1106.352	1109.342	1108.458
52.5	1036.022	1037.504	1036.854	1037.504	1036.022	1039.090	1040.312
55.0	963.898	965.432	965.250	965.432	963.898	968.786	969.436
57.5	896.402	894.608	895.674	894.608	896.402	896.896	897.312
60.0	821.392	822.692	823.706	822.692	821.392	823.966	825.890
62.5	752.102	747.526	747.578	747.526	752.102	750.984	752.570
65.0	677.482	671.294	674.362	671.294	677.482	674.076	682.240
67.5	600.912	597.792	600.912	597.792	600.912	599.976	605.072
70.0	527.046	525.590	526.838	525.590	527.046	525.850	531.284
72.5	452.452	451.282	456.196	451.282	452.452	454.844	458.068
75.0	382.174	380.406	384.670	380.406	382.174	382.772	388.154
77.5	310.310	312.598	312.494	312.598	310.310	310.934	315.094
80.0	241.098	241.176	243.672	241.176	241.098	242.788	243.438

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**CANDELA TABULATION - (Cont.)**

82.5	175.214	172.328	173.992	172.328	175.214	173.810	177.450
85.0	111.462	111.046	109.330	111.046	111.462	112.580	112.294
87.5	51.298	47.242	46.306	47.242	51.298	50.830	49.894
90.0	9.594	11.960	13.884	11.960	9.594	8.268	7.826
92.5	13.806	14.118	13.806	14.118	13.806	14.118	12.714
95.0	29.510	30.290	29.016	30.290	29.510	30.264	28.652
97.5	50.908	51.142	50.440	51.142	50.908	50.934	52.026
100.0	77.506	77.844	74.672	77.844	77.506	78.000	83.928
102.5	106.418	106.002	104.052	106.002	106.418	108.212	116.766
105.0	137.722	136.786	137.098	136.786	137.722	142.168	150.176
107.5	171.704	170.612	173.342	170.612	171.704	179.738	183.664
110.0	209.716	207.272	212.056	207.272	209.716	218.192	219.570
112.5	249.574	246.558	251.966	246.558	249.574	257.062	257.036
115.0	289.900	286.650	292.344	286.650	289.900	295.906	295.282
117.5	329.810	327.470	332.826	327.470	329.810	335.764	334.516
120.0	370.344	368.082	373.620	368.082	370.344	376.038	374.244
122.5	411.112	409.214	414.544	409.214	411.112	416.754	415.194
125.0	451.932	451.490	455.182	451.490	451.932	457.860	456.222
127.5	492.544	493.714	496.730	493.714	492.544	498.940	497.328
130.0	533.858	535.340	539.500	535.340	533.858	540.306	538.512
132.5	575.796	577.434	581.750	577.434	575.796	581.646	579.982
135.0	617.552	619.918	623.480	619.918	617.552	623.298	621.478
137.5	659.048	662.090	664.950	662.090	659.048	664.742	662.740
140.0	699.842	703.352	706.706	703.352	699.842	705.744	703.846
142.5	740.038	743.626	747.006	743.626	740.038	745.992	744.198
145.0	779.012	782.704	785.746	782.704	779.012	784.992	783.042
147.5	816.322	819.806	822.562	819.806	816.322	822.588	819.910
150.0	851.474	855.036	857.558	855.036	851.474	858.416	855.556
152.5	885.144	888.706	890.838	888.706	885.144	891.800	889.278
155.0	916.942	919.724	921.544	919.724	916.942	923.130	920.946
157.5	946.530	948.350	949.962	948.350	946.530	951.704	949.754
160.0	972.972	974.194	975.754	974.194	972.972	978.510	976.170
162.5	995.826	997.334	999.206	997.334	995.826	1002.742	999.674
165.0	1016.522	1017.874	1019.486	1017.874	1016.522	1023.464	1020.708
167.5	1034.384	1035.164	1037.192	1035.164	1034.384	1041.066	1038.414
170.0	1049.126	1049.958	1051.908	1049.958	1049.126	1055.600	1053.208
172.5	1060.566	1061.294	1063.270	1061.294	1060.566	1067.092	1064.778
175.0	1068.548	1069.484	1071.408	1069.484	1068.548	1074.866	1073.046
177.5	1073.462	1074.346	1076.270	1074.346	1073.462	1079.806	1078.194
180.0	1077.908	1077.908	1077.908	1077.908	1077.908	1077.908	1077.908

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	684.19	N.A.	8.50
0-30	1450.74	N.A.	18.00
0-40	2374.24	N.A.	29.50
0-60	4195.12	N.A.	52.10
0-80	5267.91	N.A.	65.40
0-90	5393.41	N.A.	66.90
10-90	5216.00	N.A.	64.70
20-40	1690.05	N.A.	21.00
20-50	2646.33	N.A.	32.80
40-70	2489.25	N.A.	30.90
60-80	1072.79	N.A.	13.30
70-80	404.42	N.A.	5.00
80-90	125.50	N.A.	1.60
90-110	187.57	N.A.	2.30
90-120	476.31	N.A.	5.90
90-130	882.52	N.A.	11.00
90-150	1850.49	N.A.	23.00
90-180	2662.87	N.A.	33.10
110-180	2475.29	N.A.	30.70
0-180	8056.28	N.A.	100.00

Total Luminaire Efficiency = N.A.%

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	177.41
10-20	506.77
20-30	766.55
30-40	923.50
40-50	956.28
50-60	864.60
60-70	668.37
70-80	404.42
80-90	125.50
90-100	37.76
100-110	149.82
110-120	288.74
120-130	406.21
130-140	478.88
140-150	489.08
150-160	423.48
160-170	287.26
170-180	101.65

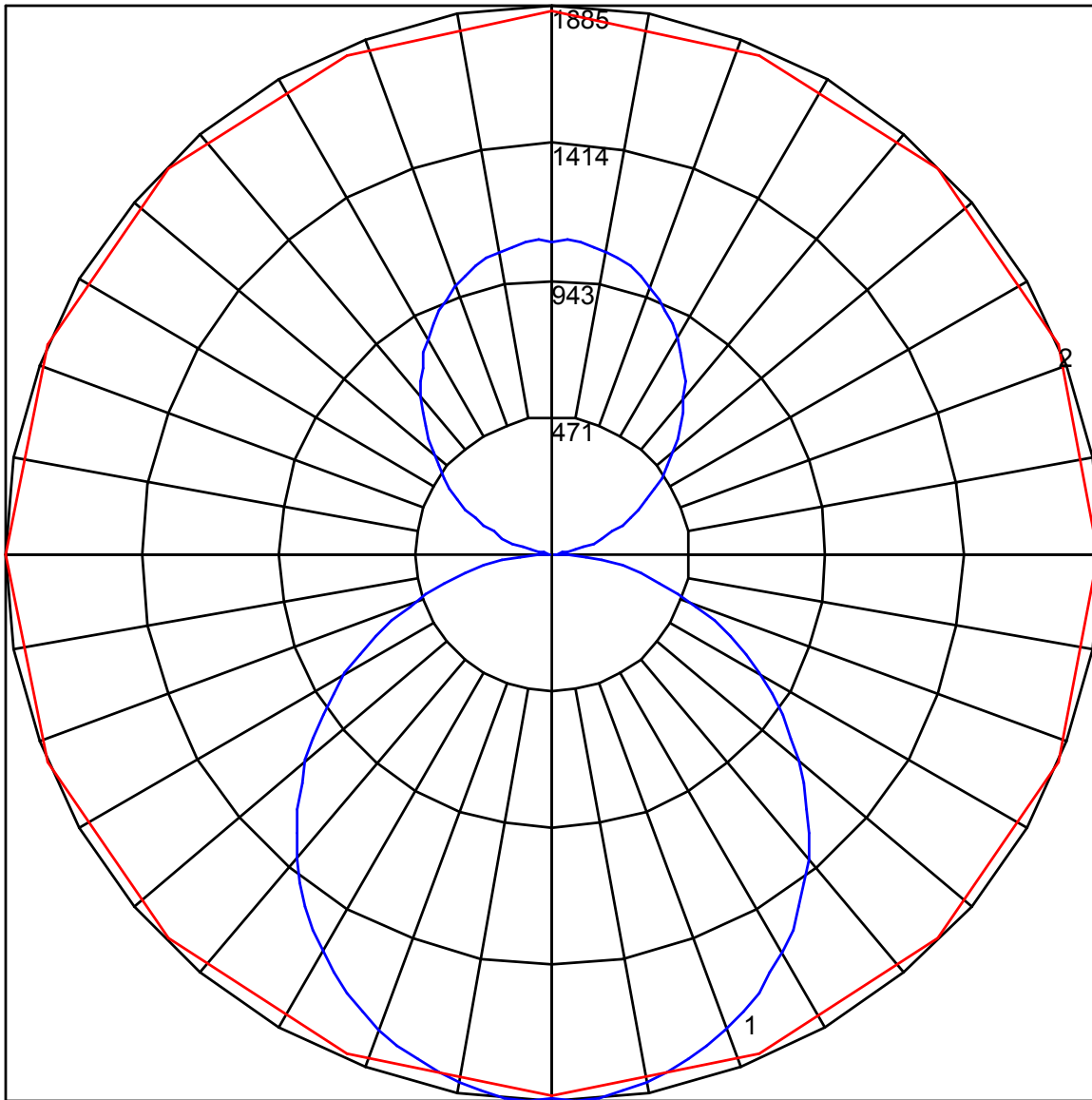
**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : C-40-LED35-HO-D9.IES**

**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

Effective Floor Cavity Reflectance 0.20

RC	80				70				50			30			10			0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
0	111	111	111	111	105	105	105	105	93	93	93	82	82	82	72	72	72	67
1	101	97	92	89	95	91	87	84	81	78	76	71	69	67	63	61	60	56
2	92	84	78	72	86	79	74	69	71	66	62	62	59	56	55	52	50	46
3	84	74	66	60	78	70	63	57	62	56	52	55	51	47	48	45	42	39
4	77	65	57	50	72	62	54	48	55	49	44	49	44	40	43	39	36	33
5	70	58	49	43	66	55	47	41	49	43	38	44	39	35	39	35	31	28
6	65	52	44	37	61	49	42	36	44	38	33	40	34	30	35	31	28	25
7	60	47	39	33	56	45	37	32	40	34	29	36	31	27	32	28	24	22
8	56	43	35	29	52	41	33	28	37	30	26	33	28	24	29	25	22	20
9	52	39	31	26	49	37	30	25	34	27	23	30	25	21	27	23	20	18
10	48	36	28	23	46	34	27	23	31	25	21	28	23	19	25	21	18	16

POLAR GRAPH



Maximum Candela = 1885.208 Located At Horizontal Angle = 22.5, Vertical Angle = 2.5  
# 1 - Vertical Plane Through Horizontal Angles (22.5 - 202.5) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (2.5) (Through Max. Cd.)